

## Abstract

A fuel injector, in particular, an injector for fuel injection systems of internal combustion engines, having an actuator, which cooperates with a valve needle (34, 51, 73), has a first valve closure member (35, 52) that is arranged on the valve needle (34, 51, 73), the valve closure member cooperating with a first valve seat surface (33, 53) on a valve body (32, 50) forming a first sealing seat (36, 54). A second valve closure member (38, 55, 75) cooperates with a second valve seat surface (40, 56) in the valve seat body (32, 50) forming a second sealing seat (41, 57). The valve needle (34, 51, 73), or the first valve closure member (35, 52), has a limit stop, against which, after a partial stroke ( $h_1$ ) of the valve needle (34, 51, 73), a counter limit stop of the second valve closure member (38, 55, 75) strikes, lifting the second valve closure member (38, 55, 75) from the second sealing seat (41, 57) in response to a further stroke of the valve needle (34, 51, 73).

(Figure 2)